

4149

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Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *North Carolina*

11-5513

DESCRIPTIVE REPORT.

Hyd. Sheet No. *4149*

LOCALITY:

Pamlico Sound
to Brant Island Shoal
to Neuse River

1970

CHIEF OF PARTY:

J. H. Hawley

HYDROGRAPHIC SHEET NO. 4.
Pamlico Sound, N.C.

Tide gauge at Neuse River L.H., used for reduction of work from the light half way to Brant I. Shoal L.H.

Plane of reference is mean sea level minus 0.5 foot.

Gauge reading corresponding to plane of reference is 3.6 feet.

Highest tide observed

5.5 feet on staff.

Lowest tide observed

3.0 feet on staff.

Tide gauge at Brant Island Shoal L.H., used for reduction of work on and south of Brant Island Shoal.

Plane of reference is mean sea level minus 0.5 foot.

Gauge reading corresponding to plane of reference is 1.6 feet.

Highest tide observed

3.6 feet on gauge.

Lowest tide observed

2.0 feet on gauge.

Tide gauge at Harbor I. Bar L.H., used for reduction of soundings east of Cedar Island Bay and half way up to Brant I. Shoal.

Plane of reference is mean sea level minus 0.5 foot.

Gauge reading corresponding to plane of reference is 1.9 feet.

Highest tide observed

3.7 feet on gauge.

Lowest tide observed

1.6 feet on gauge.

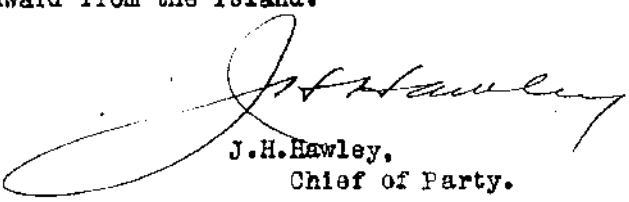
DESCRIPTIVE REPORT
to accompany
Hydrographic Sheet No. 4 (field number)

This sheet shows the re-survey of the west end of Pamlico Sound, N.C., between Brant I. Shoal and Cedar Island Bay, from the mouth of the Neuse River to previously completed work between Brant I. Shoal L.H. and Harbor I. Bar L.H. This work was done in accordance with instructions dated January 23, 1920. The work at the mouth of the Neuse River forms a junction with the work in the river done on sheet No. 2.

The inshore work and work on Brant Island Shoal was done with the 24-foot motor sailer launch while the ship was used for the remainder of the work. For the survey of Brant Island shoal anchored boats, flags on fish weirs and signals pumped down in the sand were used, these signals being located by sextant angles and cuts. For the inshore work between Cedar Island Bay and Harbor I. Bar L.H. it was necessary to use distant objects for fixes as the topography and inshore signal building was omitted in accordance with instructions dated October 15, 1920.

No important changes were found in this vicinity except at the blue through Brant Island shoal where a least depth of seven feet was found instead of 12 feet as shown on the chart. This change was reported during the season. During the course of the survey several small oyster beds were found and developed. These beds are quite small in extent and are known locally as oyster rocks. They extend from 3 to 4 feet above the general level of the bottom. It is probable that other beds exist that were not found on the sounding lines.

Fish weirs were noted in the vicinity of Maw Point, on Brant Island Shoal and between Cedar Island Bay and Harbor I Bar L.H. They are especially numerous south of Brant Island where they extend about $2\frac{1}{2}$ miles to the southward from the island.



J. H. Hawley,
Chief of Party.

PAMLICO SOUND NORTH CAROLINA.

STATISTICS

Sheet No 4

DATE 1920	LETTER	VOLUME	POSITIONS	SOUNDINGS	MILES STATUTE	VESSEL
Aug 24	a	1	20	192	3.5	Launch #56
" 27	b	1	23	198	4.0	"
" 30	c	1	140	787	36.0	Onward
" 31	d	1-2	139	1139	35.5	"
Sept 1	e	2	88	778	25.5	"
" 10	f	2	94	769	23.5	"
" 10	f	3	99	890	22.5	Launch #56
" 13	g	3	112	1002	23.5	*56 & N.L.
" 14	h	3-4	108	1003	26.5	Navy Launch
" 14	h	2-5	85	786	22.0	Onward
" 15	j	5	67	565	18.0	"
" 15	j	4	73	674	18.0	Navy Launch
" 16	k	4	66	538	16.0	"
" 16	k	5	47	393	11.0	Onward
" 29	l	4-6	55	543	15.5	Navy Launch
" 29	l	5	61	495	15.0	Onward
Oct 4	m	5-7	111	936	29.5	"
" 4	m	6	91	796	20.5	Navy Launch
" 5	n	6	131	1229	31.75	"
" 5	n	7	111	875	27.0	Onward
" 6	p	7	40	333	9.5	"
" 11	p	9	158	1400	33.5	Navy Launch
" 11	q	7-8	98	802	25.0	Onward
" 12	r	8	121	1041	34.0	"
" 12	q	9-10	133	1088	26.5	Navy Launch
" 15	s	8	128	747	29.0	Onward
" 15	r	10	42	174	8.5	Navy Launch
" 20	t	10	42	202	5.5	Onward
Total			2483	20375	596.25	

SECTION OF FIELD RECORDS

Report on Verification & Inking Hyd. Sheet No. 4149.

1. The records were complete and well kept.
2. The protracting was accurate; soundings pencilled in conformity with "Instructions".
3. The sheet was kept fairly clean and the work was legible.
4. The sheet was larger than standard size. This made it cumbersome to handle.
5. The lines were unusually well-controlled.
6. A sudy. of 11 ft. between 14 and 15 a (red) seems erroneous because of sudden change and not O.K'd. Frank M. Albert.

AND REFER TO NO. 4-MEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON HYDROGRAPHIC SHEET No. 4149.

Surveyed in 1920.

Chief of Party: J. H. Hawley.

Surveyed by J. H. Hawley and
F. E. Okeson.

Protracted by B. H. Rigg, N. November and R. J. Auld.

Soundings plotted by N. November.

Verified and inked by F. M. Albert.

1. The records conform to the requirements of the General Instructions except that descriptions of beginnings and endings of sounding lines are generally omitted.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are adequate.
5. The development was sufficient to permit the usual depth curves to be drawn.
6. The field plotting was completed to the extent prescribed in General Instructions and the office draftsman did not have to do any part of it over.
7. The junction with contemporary survey is good.
8. All shoals are sufficiently developed and no further surveying is required.
9. The character and scope of the surveying and field drafting are excellent.
10. Reviewed by E. P. Ellis, May, 1921 and two copies of this report to be sent to Hydrography and Topography Division.

DIRECTOR
ADDRESS THE SUPERINTENDENT
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 41/VFB

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 15, 1921.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in
10 volumes of sounding records for

HYDROGRAPHIC SHEET 4149

Pamlico Sound, N. C.
J. H. Hawley, in 1920

Plane of reference is
Mean sea level -0.5 ft., reading

3.6 ft. on tide staff at Neuse River Lighthouse
1.6 " " " " " Brant Island Shoal Lighthouse
1.9 " " " " " Harbor Island Bar Lighthouse

Condition of records: Satisfactory.



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4149 Field Number 4

State North Carolina

General locality Pamlico Sound

Locality to Neuse river entrance to Brant Island Shoal

Chief of party J.H. Hawley

Surveyed by J.H. Hawley, F.E. Okeson

Date of survey August 21 to October 20, 1920.

Scale 1 : 20,000

Soundings in feet

Plane of reference Mean sea level minus 0.5 foot

Protracted by B.H. Riggs Soundings in pencil by B.H. Riggs
N. November

Inked by F.M. Albert Verified by F.M. Albert

Records accompanying sheet (check those forwarded):

Des. report, 4 Tide books, _____ Marigrams, 3 Boat sheets,

10 Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks:

Shoal south of Bay R. beacon developed on boat sheet 2b